

Upper Rhine Cluster for Sustainability Research

Researchers Profil

Name, Position & Affiliation

Laurence Jouniaux
DR CNRS
Institut de Physique du Globe de Strasbourg UMR7516 / EOST



Expertise in relation to the topics of the URCforSR (include max. 3 related

Interactions between fluid flow and electrical flow in porous media. Geophysical prospection fro imaging subsurface and quantifying fluids. Theoretical developments for the physical processes involved in these topics. Experimental developments to observe the geophysical signal related to some crucial parameters (pososity, permeability, etc.)

Zyserman, F., L. Jouniaux, S. Warden and S. Garambois, Borehole seismoelectric logging using a shear-wave source: Possible application to CO2 disposal, *International Journal of Greenhouse Gas Control*, 33, 89-102, 2015

Allègre, V., L. Jouniaux, F. Lehmann, P. Sailhac and R. Toussaint, Modelling the streaming potential dependence on water-content in sand: influence of pressure dynamics and fluid flow, *Geophysical Prospecting*, 63, 694-712, 2015

Jouniaux L. and T. Ishido, Electrokinetics in Earth Sciences: a tutorial, *International J. Geophysics*, vol. 2012, Article ID 286107, Special Issue on Electrokinetics in Earth Sciences, Hindawi Publishing Corporation, doi:10.1155/2012/286107, 2012.

Special Interests in the topics of the URCforSR

task 3 Transformation processes and technologies

task 4 Management and development of resources

Environmental protection, sustainability of reservoirs, imaging and monitoring the underground, in term of resources (as water) or faults (as channels for fluid flows); remediation techniques.

What you are searching for regarding the cooperation within the URCforSR

I am looking for complementary skills to develop new approaches on these topics.